M-70B Circuitry Description

1. AUDIO PART

1) MIC AMP (U2)

Amplify of about 20dB from 50Hz-150KHz voice signal.

2) Compressor (SA571 IC)

PRE-Emphasis signal generated from IC1 is limited in the platform so that it is not over-modulated and voice compression.

3) Amplifier

Control amplification in all platforms.

2. POWER PART

1) Supply batter power(3V) to all parts

2) It uses DC-DC-Converter circuitry to support all parts

3. RF PART

1) Oscillator

Originates from transmitting carrier, provided voice signals from AUDIO, it modifies to FM and depart 3rd Overton to the sufficient RF Carrier.

(OSC Frequency: V.C.O. Control frequency)

2) MULTI (Q3, Q4, Q5, Q6, Q7)

Generates necessary by amplification.(It has a switch of RF Low and RF High to change amplification)

3) V.C.O.

From PLL program, at wanted frequency, modify departing frequency to output setting frequency.

4) BUFFER

Combine the final Carrier with ANT so that effect of ANT won't cause any effect to circuits.

5) PLL

Control VCO as programmed frequency.

6) Program Control (MCU)

LCD and Switch control.